

IN THE ABSTRACT OF THE DISCLOSURE:

Please amend the abstract as follows:

Abstract of the Disclosure

A low-cost and highly accurate active noise controller provides for realizing low acoustic noise, ~~and in a projector that makes possible~~ produces highlight radiance and has a small size ~~by applying the active noise controller thereto~~. The rotation frequency of a fan used for cooling the apparatus is measured by a rotation speed detector attached to the fan, a base frequency of acoustic noise and its multiple frequencies are calculated from ~~vane numbers of~~ the number of vanes provided on each fan, and target frequencies at which the acoustic noise is actively controlled are specified. An acoustic noise state is taken in from a microphone, a noise level is specified at each specified target frequency, the amplitude of an antiphase wave, ~~that considered~~ relates to the frequency characteristics of a microphone, a speaker, and the inside of the active noise controller (or the projector), ~~is~~ a roughly determined, and then ~~the~~ a generated wave is emitted from the speaker. Further, for each target frequency, phase compensation is ~~being~~ repeated in a time sequential manner, whereby the noise level is minimized.